THE JOHNS HOPKINS UNIVERSITY

SCHOOL OF MEDICINE

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BALTIMORE, MARYLAND 21205

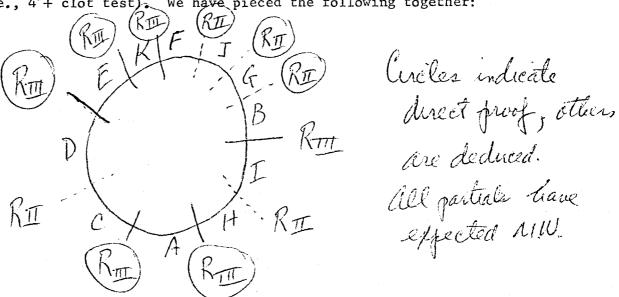
Dr. Kathleen J. Danna Laboratorium voor Moleculaire Biologie K. L. Ledeganckstraat 35 Rijksuniversiteit-Gent Gent 9000 Belgium

Dear Kathy:

DEPARTMENT OF MICROBIOLOGY

Congratulations on the Stone Award. I knew they couldn't resist a Texan.

In regard to <u>H. influenzae</u> Endo R we have purified $R_{\overline{III}}$ (A, E, K) enzyme by gradient elution from PC (it comes off late) followed by DEAE cellulose (it runs through at 0.01 M NaPO₄ pH 7.4). We are still looking for $R_{\overline{II}}$ (J, G) enzyme in what elutes from DEAE at about 0.05M NaCl (i.e., 4 + clot test). We have pieced the following together:



R_{II} (J, G) ± Ham's Endo R R_{III} (A, E, K) corresponds to Methylase III (→ NA A)

We think this corresponds to Murray's sequence $\frac{A^{\frac{1}{2}}AGCTT}{TTCGA_{\uparrow}A}$ for Endo R on

lambda (?) DNA. Since Murray got 5' A's, this sequence suggests R_{III} makes a staggered break at arrows.

In regard to enzymes, we now have large amounts of <u>E. coli</u> with RTF2 or RTF1, and I am beginning to purify R_{II} and Tom Kelly will purify R_{I} . We have just gotten a new culture of <u>H. aegyptius</u> and I plan to grow a large batch soon.

Your work seems to be going very well. Detailed sequences should soon follow. In regard to your question about staying longer, I think you should stay another year since the work is reaching its peak, and g to Howard Green's laboratory thereafter. I wouldn't worry about the availability of jobs. With your accomplishments and background, you should not have trouble.

I have already sent the slides you asked for.

Best regard to Walter.

Sincerely.

Daniel Nathans

DN/1s